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Itronics Updates Progress on GOLD'n GRO Guardian Deer Repellent Fertilizer and Silver/Gold Recovery Technology Developments

RENO, Nev., Dec. 11 /PRNewswire-FirstCall/ -- Itronics Inc. (OTC Bulletin Board: ITRO; Frankfurt and Berlin Stock Exchanges: ITG) today reported significant progress by its subsidiary, Itronics Metallurgical, Inc., on product and process developments that will both improve the Company's bottom line and its reputation for environmental excellence. Other recent highlights include:

-- The GOLD'n GRO Guardian deer repellent fertilizer application has been received by the U.S. Environmental Protection Agency, and has been assigned a review classification number that provides for a 180-day registration review period. This puts the registration on a schedule to be completed in May-June, 2008, after which sales can proceed.

-- Revisions to the photochemical blending procedures that will increase throughput capacity for GOLD'n GRO manufacturing by 250 percent have been successfully implemented.

-- Negotiations are continuing with potential new suppliers of used photochemicals, with startup on one new contract completed in November, and another tentatively scheduled to begin in February 2008.

-- Work is continuing on equipment design and specification for the expansion of the solids handling capacity in the silver refinery. Part of the equipment has been received and engineering for equipment installation is now proceeding.

Two new leaching processes that are under development, Itromet FeLix Process and Itromet SuLix Process, were described by Itronics in a news release dated November 6, 2007. Development of operating parameters for the two processes has been completed and bench tests to demonstrate the operating sequence for both processes, on a "start to finish" basis, are now underway. A pilot-scale leach circuit that uses both processes in sequence has been specified and sizing of process equipment and identification of specific items of equipment to develop an installation budget is underway. Layout design and engineering for the pilot-scale operating leach circuit is expected to begin early in the first quarter 2008.

A series of small pilot scale leach tests using the Itromet SuLix Process has been completed with essentially complete sulfur recovery from material containing 84 percent sulfur and 3 percent silver. More than 95 percent of the test lot of material was put into liquid solution leaving the silver in the solid residue for recovery by refining. This series of tests demonstrates that large improvements in silver refining capacity will be achieved once this process is fully operational due to the large bulk reduction of the silver-bearing solids.

The Itromet FeLix and SuLix processes are demonstrating the ability to separate nutrient metals and minerals (iron, zinc, and sulfur) from silver and gold bearing solids. The nutrient metals and minerals are put into liquid solution for use in the GOLD'n GRO liquid fertilizers, and the silver and gold bearing solids are sent to the refinery for recovery of the precious metals from non-nutrient impurities.

The Itromet FeLix and Itromet SuLix technologies improve resource use because nutrient metals that are now being wasted will be recovered for beneficial use once the complete leaching system is operational.

"Itronics' advancement and completion of new GOLD'n GRO products and vertically integrated silver/gold recovery technology is a result of years of research and development that has made the photochemical recycling technology and the GOLD'n GRO brand of environmentally compatible fertilizer a success," said Dr. John Whitney, Itronics President. "The GOLD'n GRO Guardian deer repellent fertilizer is made possible by the nutrient delivery technology embodied in the GOLD'n GRO fertilizers. We are truly excited by the way these developments are progressing and the potential for sales expansion that they represent."

About Itronics

Itronics, through its subsidiary, Itronics Metallurgical, Inc., is the only company in the world with a fully permitted "Beneficial Use Photochemical, Silver, and Water Recycling" plant located in the United States which can convert used photoliquids into pure silver and liquid fertilizers. At the Company's Reno, Nevada factory more than 99 percent of the silver and virtually all the other toxic heavy metals are extracted from used photoliquids. The purified liquids are converted into environmentally beneficial, chelated, micronutrient and multinutrient liquid fertilizers sold under the GOLD'n GRO trademark. The silver is refined and sold as bullion and 5 troy ounce, 0.999 pure, Silver Nevada Miner numismatic bars. The environmentally friendly liquid fertilizers can be used for lawns and houseplants, and are available, along with GOLD'n GRO liquid fertilizer injectors, at the Company's "e-store" catalog at <http://goldngro.com>. The popular Silver Nevada Miner bars are available at the Company's "e-store" catalog at

<http://www.itromet.com>.

Headquartered in Reno, Nevada, Itronics Inc. is a "Creative Environmental Technology" company and a world leader in photochemical recycling. The Company also provides environmentally compatible mining technology development, project planning, and technical services to the gold mining industry and operates the popular InsideMetals.com web site: <http://www.insidemetals.com> provides a value-added WORLD VIEW of Gold Producer Stocks, Mineral Producer Stocks, Junior Gold Stocks, and Junior Mineral Stocks. Itronics has received numerous domestic and international awards that recognize its ability to successfully create and implement new environmentally compatible recycling and fertilizer technologies.

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